

U.S. Patent Application No. 10/697,551
Amendment dated November 10, 2006
Reply to Office Action of May 11, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) A process for manufacturing a creped fiber web, comprising:

applying an adhesive to a web dryer surface;

conveying a fiber web to said web dryer surface;

drying said fiber web on said web dryer surface to form a dried fiber web; and

creping said dried fiber web from said web dryer surface, wherein said adhesive comprises at least one polyvinylpyrrolidone, and wherein said adhesive comprises less than 0.05 wt. % ethoxylated acetylenic diol, and less than 1 wt. % oxazoline polymer, and wherein said polyvinylpyrrolidone has a K value of from 80 to about 150.
2. (Currently amended) The process of claim 1, wherein said polyvinylpyrrolidone has a K value of from about ~~10~~ 80 to about ~~150~~ 130.
3. (Original) The process of claim 1, wherein said polyvinylpyrrolidone has a T_g of from about 110 to about 190° C.
4. (Original) The process of claim 1, wherein said polyvinylpyrrolidone has an average molecular weight of from about 15,000 to about 120,000 Daltons.
5. (Original) The process of claim 1, wherein said adhesive comprises at least 95 wt. % polyvinylpyrrolidone
6. (Original) The process of claim 1, wherein said adhesive comprises from about 0.05 to about 100 wt. % polyvinylpyrrolidone.
7. (Original) The process of claim 1, wherein said adhesive further comprises PAE, polyvinyl alcohol, a polyamine, a polyquat, or combinations thereof.

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8. (Original) The process of claim 1, wherein said adhesive contains substantially no chloride.

9. (Original) The process of claim 1, wherein said adhesive contains substantially no epichlorohydrin.

10. (Original) The process of claim 1, further comprising drying said fiber web to a fiber consistency of from about 10 to about 90% before said conveying of said fiber web to said web dryer surface.

11. (Original) The process of claim 1, wherein said fiber web is dried to a fiber consistency of from about 40 to about 50% by weight before said conveying of said fiber web to said web dryer surface.

12. (Original) The process of claim 1, wherein said drying comprises drying said fiber web to a fiber consistency of at least about 95% by weight prior to said creping.

13. (Original) The process of claim 1, wherein said conveying comprises carrying said fiber web on a fabric to said web dryer surface and transferring said fiber web from said fabric to said web dryer surface.

14. (Original) The process of claim 13, wherein said fabric is a transfer and impression fabric having knuckles which compact a portion of the surface of said fiber web to form a knuckled fiber web, and wherein said adhesive retains said knuckled fiber web on said web dryer surface until a fiber consistency of said knuckled fiber web is at least about 95%.

15. (Original) The process of claim 14, wherein said impression fabric knuckles compact about 20% of the surface area of said fiber web.

16. (Canceled)

17. (Currently amended) A process for manufacturing a creped fiber web, comprising:

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adhering a fiber web to a web dryer surface using an adhesive; and

creping said fiber web from said web dryer surface, wherein said adhesive comprises at least one type of polyvinylpyrrolidone and less than 0.05 wt. % ethoxylated acetylenic diol, and less than 1 wt. % oxazoline polymer, and wherein said polyvinylpyrrolidone has a K value of from 80 to about 150.

18. (Original) The process of claim 17, wherein said adhesive contains substantially no chloride.

19. (Original) The process of claim 17, wherein said adhesive contains substantially no epichlorohydrin.

20. (New) The process of claim 1, wherein the oxazoline polymer is present in an amount of less than 0.1 wt% oxazoline polymer.

21. (New) The process of claim 1, wherein the oxazoline polymer is present in an amount of less than 0.05 wt% oxazoline polymer.

22. (New) The process of claim 1, wherein said adhesive contains no oxazoline polymer.

23. (New) The process of claim 1, wherein said adhesive comprises about 100 wt% polyvinylpyrrolidone.

24. The process of claim 17, wherein the oxazoline polymer is present in an amount of less than 0.1 wt% oxazoline polymer.

25. (New) The process of claim 17, wherein the oxazoline polymer is present in an amount of less than 0.05 wt% oxazoline polymer.

26. (New) The process of claim 17, wherein said adhesive contains no oxazoline polymer.

27. (New) The process of claim 17, wherein said adhesive comprises about 100 wt% polyvinylpyrrolidone.